

## CONTEINTS

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A walk through the woods in winter is like following a treasure map.

12 Diary of a Sleepy Groundhog
Groundhogs love three things:
eating, digging, and sleeping.

#### CREATURE FEATURE

**10** American Kestrel

**Pull out this poster** and tape it to your wall to make your room look wild.

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Hoo's ready for 2025? Shorteared owls glide gracefully over prairies and pastures, searching for mice and voles to eat. The tufts of feathers that give a shortie its name (they aren't really ears) are visible when the owl is curious or alarmed.

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**ON THE COVER** 

Woodchuck



Your guide to all the VNV\$VAL, VNIQUE, AND VNBELIEVABLE stuff that goes on in nature

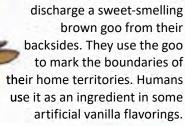
Because its eyes are on the sides of its head, an EASTERN COTTONTAIL has a nearly 360-degree field of vision. If it were on a pitcher's mound, it could see every base. But it does have a tiny blind spot: right in front of its twitchy, little nose.



You wouldn't need a scuba tank if you had lungs like a RIVER OTTER. To catch fish and crawdads, these air-breathing mammals can hold their breath and stay underwater for up to eight minutes.



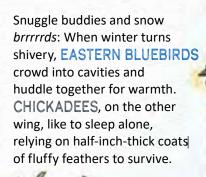
AMERICAN BEAVERS





In January, WINTER STONEFLIES crawl out of streams and trudge around in the cold to find a mate. Snow and ice can't cool off the romance of these love bugs. Chemicals in their bodies keep them from turning into bugsicles.

DUCKS have up to 12,000 muscles used to move feathers. A duck may fluff its feathers to trap heat, streamline its feathers to dive underwater, or raise its feathers to look big and strong to attract a mate.





Super-sized snack attack: Although full-grown BOBCATS rarely weigh more than 40 pounds, the ferocious felines have, on rare occasions, been known to take down adult white-tailed deer, which can weigh over 100 pounds.



DON'T KNOW? Jump to Page 21 to find out.

# WHAT ISD)

- 1 My seeds hold quite a surprise.
- 2 Though tiny they grow to king-size.
- 3 They ride on the wind through the skies.
- 4 So my branches can start to arise.







A wood frog spends winter chilling out — literally. When icy weather hits, the palm-sized amphibian quits breathing, its heart stops, and its body freezes nearly solid.



In Missouri, these cold-loving frogs prefer to live in our hottest and driest habitats, like rocky, sundrenched glades in the Ozarks.



Green algae grows on wood frog eggs. The algae gets carbon dioxide and nutrients from the baby frogs. In return, the baby frogs get oxygen from the algae.



#### WHERE TO GO

Bald eagles are like pirates, sailing the skies, eagle-eyed, looking for food to loot. They mostly plunder fish and waterfowl, but they won't turn up their beaks at any meat — even if it's been dead for a bit. To find eagles, go where there's water and food, like big rivers, large lakes, or wetlands. Here are a few hot spots to check out.

- Loess Bluffs National Wildlife Refuge
- Smithville Lake
- 3 Swan Lake National Wildlife Refuge
- 4 Eagle Bluffs Conservation Area
- Lock and Dam 20
- 6 Lock and Dam 24
- 7 Lock and Dam 25
- Riverlands Environmental Demonstration Area 8
- 9 Old Chain of Rocks Bridge
- 10 Bagnell Dam Access at Lake of the Ozarks
- 11 Truman Reservoir
- 12 Schell-Osage Conservation Area
- 13 Stockton Lake
- 14 Shepherd of the Hills Fish Hatchery
- Mingo National Wildlife Refuge 15





- Find the eagle with your bare eyes.
- Without taking your eyes off your feathered friend, raise the binoculars to your eyes. The eagle should appear in the center of the image.
- If you don't see it, lower the binoculars and try again. Remember: Don't look at the binocs, keep your eyes glued to the bird!
- 4 If the eagle looks fuzzy, simply turn the focus knob until the image becomes sharp.

#### WHAT TO LOOK FOR

- ◆ Bald eagles aren't bald! If you look closely at one through binoculars, you'll see that its head is covered with crisp white feathers.
- It takes a young eagle about five years to get the white head and tail of an adult. Until then, a youngster has a brown head and tail with a blotchy brown body and wings. In areas with lots of eagles, you'll likely see both youngsters and adults.
- A hungry eagle isn't shy about stealing a meal. They've even been known to snatch fish from anglers and ducks from hunters. Watch long enough, and you may see one swipe snacks from another eagle.
- Male eagles swoop, cartwheel, and somersault through the air to show off for female eagles. If a female likes what she sees, she flies over to hold hands with the male. With their talons locked, the eagles plummet to the ground. Just before they go splat, they let go and swoop back into the sky.
- ◆ Some eagles migrate north in the spring. Others nest in Missouri. If you spot an enormous pile of sticks in a tree, it's a good bet you've found an eagle nest.

## TREASURE HUNT

A walk through the woods in winter is like following a treasure map. You never know what might be hidden for you to discover. So gather your bullwhip, put on your Indiana Jones hat, and let's go on an adventure! How many of these wild "treasures" can you find?

## SPY THE YEAR'S FIRST BUTTERFLY

Mourning cloak butterflies spend the depths of winter huddled in tree cavities or hiding under loose bark. On warm winter days they wake up and flutter around looking for tree sap to slurp.

#### **BAG SOME BLOOMS**

Ozark witch-hazel is among the first plants to flower in Missouri. Even when there's snow on the ground, look (and sniff) along streams for this woody shrub with yellow, frilly, sweet-smelling flowers.

#### GET SCOLDED BY A SQUI EL

Bushy-tailed nutmunchers hate to be interrupted when they're gathering acorns to eat. Listen for a grumpy *cherk-cherkcherk* if you startle one.

#### SEE PEPPER JUMP

Tiny, insect-like creatures called snow fleas become active on sunny winter days. To find them, look for pepper-sized specks in the snow at the base of trees. Snow fleas have spring-loaded tails that catapult them into the air when they want to flee.

### NOTE SOME NESTS

Bare branches make
it easier to spot nests
that were once hidden
by leaves. Look for
the cup-shaped nests
of songbirds, large,
papery nests of bald-faced
hornets, and messy leaf
piles made by squirrels.

#### HEAR A HAMMERING HEADBANGER

Woodpeckers talk to each other by drumming. They pick something hollow — like a dead branch — and hammer at it with their beaks. The drumlike rata-tat-tapping tells other woodpeckers someone is looking for a mate or claiming a patch of trees as their own.



INDA ERESHWATER ARNDT / ALAMY STOCK PHOTO

VOLE TUNNELS: DAVID L. CLEMENT, UNIVERSITY OF MARYLAND, <u>RLIGWOOD:ORG, WOLF</u>





Bald-faced

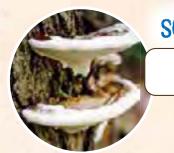
hornet nest

#### FIND A FUNGUS

Colorful funguses can be found growing on trees (usually dead ones) at any time of the year. Look for multi-colored turkey tail mushrooms, creamy white oyster mushrooms, and reddish-orange cinnabar polypores.

#### TURN UP A TUNNEL

If you notice a tangle of tunnels in the grass under the snow, you've found the work of a vole. These mouselike rodents with stubby tails snip grass to eat. As they do, they build — mouthful by mouthful — a maze of trails used by a variety of small creatures.



#### SCRATCH AN ARTIST CONK

If you find an artist conk mushroom growing on a tree, use a stick to scratch its snow-white underside. Like magic, wherever you scratch will turn dark.



In late winter, eastern cottontails show off to attract a mate.

They chase and hop over each other.

Sometimes they even punch or kick with their paws.



RABBITS: DANITA DELIMONT / ALAMY STOCK PHOTO

JANUARY/FEBRUARY 2025 » 7



**XPLOR** 







### DIRY SLEEPY GROUNDHOG GROUNDHOG

I'M CHARLOTTE. I'M A
WOODCHUCK — AKA A
GROUNDHOG — A BIG, CHUBBY SQUIRREL
WHO LOVES TO SLEEP, EAT, AND DIG.

#### GROUNDHOG DAY

**FEBRUARY 2** — Can you believe people think groundhogs predict the weather? They say if I see my shadow on Groundhog Day there will be six more weeks of winter. Where do they come up with this stuff? I'm not a furry forecaster! I have dreams of my own you know! In fact, when I'm done ... with this ... nap ... snort ... I'm going to ... snore ... and then ... Zzzzzzzzzzz.

#### BIG LEAGUE BURROWER

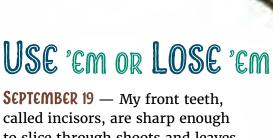
**FEBRUARY 24** — I'm better than a bulldozer when it comes to building burrows. Using only my paws and claws, I moved nearly 1,000 pounds of dirt to dig a hole in this hillside. Tree roots? No trouble. I use my teeth to chew through them. I can even close my ears to keep out dirt. Can you close your ears? My bedroom is 6 feet underground, and my hallway to the surface stretches nearly as long as a basketball court. Whew! No wonder I sleep so much.











called incisors, are sharp enough to slice through shoots and leaves like a chef's knife through a celery stalk. Since I eat all the time, it's good that my chompers never quit growing. If they did, I'd grind them down to nubs in no time, like a pencil eraser that's been used too often. But — goodness forbid — if I stopped eating, my teeth might grow so long that I couldn't open wide enough to take another bite.



**OCTOBER 31** — Sleeping is my super power. Tonight, I waddled deep into my burrow, curled up in my leaflined bed, and switched my body on standby. In a few short hours, my heart will grind nearly to a halt, beating only five times a minute. I'll take a breath once every four minutes. And my temperature will plummet to just a few degrees above freezing. In this sloweddown state — called hibernation — I can sleep through the leanest months of winter. See you next spring. Zzzzzzzzzzz.

## XFLOR MORE

## Nature's NIGHT Shift

When the sun goes down, these critters get up.

Some of Missouri's most recognizable animals often go unseen. That's because they're nocturnal, which means they're active at night. They search for food, court a mate, and raise their babies between dusk and dawn. During the daytime, they hide in dens or find a quiet place to rest.

#### Instructions

Can you find these 13 nocturnal animals lurking in the shadows of this wintery woods?

**Gray Fox** 

Striped Skunk

White-Footed Mouse



Flying Squirrel



## FUN THINGS TO DO AND GREAT PLACES TO DISCOVER NATURE

Eastern fox

squirrel

When you're tired of sled riding and winter hikes, put your time inside to good use by TYING SOME TROUT FLIES. Catch-and-keep season starts March 1 at Missouri's trout parks. Search the internet to learn how to tie woolly buggers and dozens of other flies.

In February, high in the treetops, squirrels' leafy NESTS BECOME NURSERIES. Mama squirrels give birth to two or three blind, hairless, helpless babies. It takes about a month for the youngsters to open their eyes and grow hair, and another few weeks for them to venture outside.

In winter, you won't find many molehills. But that doesn't mean the TINY TUNNELERS aren't busy. About a foot below the surface, where the ground isn't frozen, eastern moles tunnel around, searching for insects to fill their furry bellies.

**CHICKADEES** are itty-bitty but fearless. With patience, you can coax one to eat from your hand. Cup a handful of sunflower seeds in your open palm and sit patiently near a bird feeder. Hold really still! It may take multiple tries over several days, but soon the gutsy fluff balls will land on your hand to grab a quick snack.

In mid-winter, HORNED LARKS FLOCK to harvested crop fields. The sparrow-like birds are the same size and color as dirt clods, so you'll need sharp eyes to spot one. The trick is to scan an open field and stop when you spot movement. Look closely, and you'll likely find a black-masked, yellowthroated bird that has "horns" of black feathers.

Black-capped chickadee

Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at mdc.mo.gov/events.





#### SYCAMORE SEED BALL

Sycamores are among the largest leafy trees in the United States, reaching heights over 100 feet and with trunks stretching 8 feet across. On older trees, the grayish-brown bark sloughs off to reveal bone-white bark underneath. In the fall, seed balls, each containing hundreds of seeds, dangle from the tree's branches. The balls break apart by spring, and the weightless, fuzzy seeds get carried away on the wind.



Cut out this critter card and take it with you outside. How many of the things on the card can you find?

#### RED FOX







#### RABBITS AND RODENTS

Red foxes are carnivores, which means they eat meat. Rabbits, mice, and voles make up most of their menu.

#### SUPERHERO HEARING

A fox's oversized ears can pinpoint a vole rustling under the snow from 100 feet away — about the length of a basketball court.

#### LETHAL LEAP

To pounce on an unsuspecting mouse, a red fox can leap the length of a living room.

#### **BUSHY BLANKET**

On cold nights, a fox curls into a doughnut and wraps its furry tail over its body like a blanket. To stay extra cozy, it tucks its nose underneath.

#### CANINE COMMUNICATION

In winter, female foxes give an earpiercing squall to call to a mate. Males answer back with a few short barks.



FROM PAGE 3 — Lie: 2 (Wood frogs live in cool, shady forests.)

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